CLAIMS

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. An engine powered generator comprising:
an engine;
a plate mounted to the engine;
a generator, mounted to the plate, including a rotor, a stator and a housing, wherein the stator is secured in the housing; and
a plurality of pins disposed on the plate such that each of the plurality of pins contacts a surface of the housing, to concentrically align the stator with the rotor.

2. The apparatus of claim 1 wherein the plurality of pins includes at least three pins.

3. The apparatus of claim 1 wherein the plurality of pins includes at least six pins.

4. The apparatus of claim 1 wherein the housing has an inner housing surface and at least one of the plurality of pins contacts the inner housing surface.

5. The apparatus of claim 4 wherein the housing has an outer housing surface and at least one of the plurality of pins contacts the outer housing surface.

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6. The apparatus of claim 1 wherein the housing has an outer surface, and at least one of the plurality of pins contacts the outer housing surface.

7. The apparatus of claim 1 wherein each of the plurality of pins is a dowel pin.

8. The apparatus of claim 1 wherein each of the plurality of pins is ~~round~~ CYLINDRICAL

9. The apparatus of claim 1 wherein the housing has a circular cross section.

10. The apparatus of claim 1 wherein the contact with each of the plurality of pins is tangential.

11. An engine powered generator comprising:
an engine;
a plate mounted to the engine;
a generator, mounted to the plate, including a rotor, a stator and a housing wherein the stator is secured in the housing; and
means for concentrically aligning the stator with the rotor.

12. The apparatus of claim 11 wherein the means for concentrically aligning includes a plurality of pins disposed on the plate.

13. The apparatus of claim 12 wherein the plurality of pins includes at least three pins.

14. The apparatus of claim 12 wherein the plurality of pins includes at least six pins.

15. The apparatus of claim 12 wherein each of the plurality of pins is ~~round.~~ CYLINDRICAL KB 9/22/99

16. The apparatus of claim 11 wherein the housing has an interior housing surface, and the means for concentrically aligning contacts the interior housing surface.

17. The apparatus of claim 11 wherein the housing has an outer housing surface, and the means for concentrically aligning contacts the outer housing surface.

18. The apparatus of claim 11 wherein the housing has a circular cross section.

19. A method for concentrically aligning a stator with a rotor of a generator powered by an engine, the method comprising:

mounting a first plate to the engine wherein the first plate has a plurality of pins disposed thereon;

securing the stator in a housing;

aligning the housing with the plurality of pins such that each of the plurality of pins contacts a surface of the housing to concentrically align the stator with the rotor; and

mounting the generator to the first plate.

20. The method of claim 19 wherein at least one of the plurality of pins contacts an interior housing surface.

21. The method of claim 20 wherein at least one of the plurality of pins contacts an outer housing surface.

22. The method of claim 19 wherein at least one of the plurality of pins contacts an outer housing surface.

23. The method of claim 18 wherein each of the plurality of pins is ~~round~~. CYLINDRICAL HB 9/22/99

24. The method of claim 19 wherein the housing has a circular cross section and further comprising:
aligning the housing with a plurality of pins disposed on a second plate such that each of the plurality of pins disposed on the second plate contacts a surface of the housing to concentrically align the stator with the rotor.

25. The method of claim 19 wherein the contact with each of the plurality of pins is tangential.

26. An engine powered generator comprising:
an engine having a wall and HAVING HB 9/22/99 an output shaft rotating about an axis, wherein the wall has a plurality of pins located about the axis and protruding from the wall;
a generator having a rotor, operatively connected to the output shaft and rotating about the axis, and a stator secured in a housing;

said housing having a housing surface;

wherein said generator is located on said wall by contacting said pins with said housing surface at a first end of said housing.

27. The engine powered generator of claim 26 wherein the wall is substantially normal to the axis.

28. The engine powered generator of claim 26 wherein each of the plurality of pins protrudes from the wall parallel to the axis.

29. The engine powered generator of claim 26 wherein the plurality of pins includes at least three pins.

30. The engine powered generator of claim 26 wherein the housing has an inner housing surface and at least one of the plurality of pins contacts the inner housing surface.

31. The engine powered generator of claim 26 wherein the stator is permanently affixed to the housing.

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